



Human Gastrin-releasing peptide,GRP ELISA Kit

Product Code	CSB-E09167h
Abbreviation	GRP
Target Name	Gastrin-releasing peptide
Uniprot No.	P07492
Alias	BN, GRP-10, preproGRP, proGRP, bombesin neuromedin C pre-progastrin releasing peptide
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, cell culture supernates, tissue homogenates
Detection Range	1.25 ng/mL-80 ng/mL
Sensitivity	0.312 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Signal Transduction
Gene Names	GRP
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human GRP ELISA Kit was designed for the quantitative measurement of Human GRP protein in serum, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 1.25 ng/mL-80 ng/mL and the sensitivity is 0.312 ng/mL.
Target Details	This gene encodes a member of the bombesin-like family of gastrin-releasing peptides. Its preproprotein, following cleavage of a signal peptide, is further processed to produce either the 27 aa gastrin-releasing peptide or the 10 aa neuromedin C. These smaller peptides regulate numerous functions of the gastrointestinal and central nervous systems, including release of gastrointestinal hormones, smooth muscle cell contraction, and epithelial cell proliferation. These peptides are also likely to play a role in human cancers of the lung, colon, stomach, pancreas, breast, and prostate. Alternative splicing results in multiple transcript variants encoding different isoforms.
Product Precision	Intra-assay Precision (Precision within an assay): CV%<8%



Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human GRP in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum(n=4)
1:1	Average %	97
	Range %	92-101
1:2	Average %	103
	Range %	98-110
1:4	Average %	92
	Range %	88-96
1:8	Average %	86
	Range %	80-92

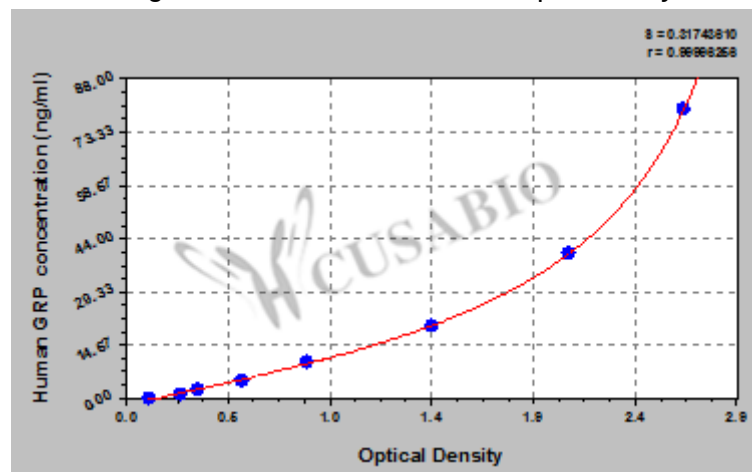
Recovery

The recovery of human GRP spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	93	89-97

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
80	2.694	2.572	2.633	2.512
40	2.082	2.105	2.094	1.973
20	1.418	1.476	1.447	1.326
10	0.891	0.835	0.863	0.742
5	0.540	0.572	0.556	0.435
2.5	0.350	0.341	0.346	0.225
1.25	0.276	0.262	0.269	0.148
0	0.124	0.117	0.121	

Msds

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E09167h.pdf", "filename": "MSDS"}}